SM LED

Project Name:	
Type:	

APPLICATION

Specification grade fixture designed for high performance and maximum efficiency. It can be installed in rows either surface or stem mounted to provide excellent, energy efficient general lighting in commercial, retail and institutional environments.

FEATURES:

- Die formed, cold-rolled, heavy gauge steel housing construction provides durability and strength.
- 100% acrylic, clear prismatic pattern #12 lens with nominal 0.100" thickness. Steel door frame allows easy lens replacement without tool.
- Unique door frame design delivers a premium extrude appearance.
- Door latches and hinges from either side.
- Standard door is without gasket flush steel with sturdy tee hinges and opposing, rotary action cam latches. Also available fully gasket door.
- Smooth edges for easy handing.
- Finish is high-gloss baked white enamel over rust inhibiting phosphate coating for maximum corrosion resistance.

MOUNTING:

- Pendant or surface mounting.
- End to end row mounting or single unit installation for both surface and stem mounting.
- 1'x'4' fixture requires at least 2 stems for stem mounting. 2'x2' , 2'x4' fixtures require at least 4 stems for stem mounting.
- Compatible with most ceiling types.

LED:

- High quality array LEDs.
- LM80
- Color Temperature: 2700/3000/3500/4000/5000 (K)
- Color Rendering Index: > 80 Ra.
- Calculated L70: 122,000 hours
- Reported L70: >54,000 hours

ELECTRICAL:

- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
- Power Factor: typical > 0.95, THD <20, meets Class1 or Class 2 circuit.
- Philips Xitanium: 0-10V Dim to 1%(PH).
- Universal Lighting Everline : 0-10V Dim to 1%(ULT)
- Osram Optotronic: 0-10V Dim to 1%(OS1) or 10%(OS).
- Generic : 0-10V 10% dim. (GR)
- Operating temperature: -4°F (-20°C) ~ 122°F (50°C).

- <ELCU-200>
- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
- Interfaces with fire alarm panel or security system.
- "Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

LISTING:

- UL/CUL listed and labeled.
- Listed to UL 1598 and UL 8750.
- Suitable for dry and damp locations.
- CEC Compliant EM (please contact for more information)
- ARRA compliant (optional).
- 7 or 10 years limited warranty. (optional) [4]
- 5 years limited warranty.
- Bluetooth Mesh System available, please contact factory for more information.

CONFIGURATIONS

Series	Size	LED	AC Input	Lumen Output (4000K)	Lumen Efficiency (4000K)
SM LED	1' x 4'	36LED	39.33W	4361.57 lm	110.90 lm/W
		44LED	46.71W	5584.36 lm	119.55 lm/W
		54LED	57.33W	6404.25 lm	111.71 lm/W
		72LED	78.66W	9339.55 lm	118.73 lm/W
		108LED	114.66W	13713.58 lm	119.60 lm/W
	2' x 2'	27LED	29.76W	3598.15 lm	121.27 lm/W
		36LED	39.22W	4536.36 lm	115.66 lm/W
		44LED	46.84W	5384.59 lm	114.96 lm/W
		54LED	57.49W	6608.91 lm	114.96 lm/W
		72LED	78.44W	9072.71 lm	115.66 lm/W
		108LED	114.98W	13216.80 lm	114.95 lm/W
	2' x 4'	36LED	39.58W	4850.41 lm	122.55 lm/W
		44LED	47.08W	5798.86 lm	123.17 lm/W
		54LED	57.79W	7134.53 lm	123.46 lm/W
		72LED	75.50W	9238.20 lm	122.36 lm/W
		108LED	108.0W	13088.52 lm	121.19 lm/W

	Multiplier		
CCT	3000K	3500K	5000K
1X4	0.9502	0.9837	1.0173
2X2	0.9891	0.9951	1.0119
2X4	0.9809	0.9980	1.0030

OUTPUT CURRENT

		Bi-Level		Tri-Level (Default)	
SW1	SW2	Config Range	Default	Config Range	Default
Close	Open	10% - 70%	40%	10% - 70%	30%
Open	Close	10% - 70%	40%	10% - 70%	70%
Close	Close	100%	100%	100%	100%
Open	Open	0%	0%	0%	0%

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LED SURFACE MOUNT TROFFER

ORDERING INFORMATION

EXAMPLE: *SM-24-36LED-40K-UNV-AB*

MODEL	SIZE		LED		COLOR TEMP.		EFFICACY		CRI	
SM	**14**	1‘ x 4’	**27LED**	27W LED	**-27K**	2700K [9]	**(Blank)**	Standard	**(Blank)**	80+ CRI
	22	2’ x 2’	**36LED**	36W LED	**-30K**	3000K	**HE**	High Efficacy 10%	**C9**	90+ CRI [10]
	24	2’ x 4’	**44LED**	44W LED	**-35K**	3500K				
			54LED	54W LED	**-40K**	4000K (Std.)				
			72LED	72W LED	**-50K**	5000K				
			108LED	108WLED						

TRIM TYPE		DIFFUSER		VOLTAGE	
(Blank)	Flush Steel, White	**(Blank)**	Pattern #12 Acrylic Lens 0.100” Thick	**UNV**	120-277V (Std.)
SB	Flush Steel, Black	**A12125**	Pattern #12 Acrylic Lens 0.125 “ Thick	**120**	120V
FB	Flush Aluminum, Black	**P12125**	Pattern #12 Polycarbonate Lens 0.125” Thick	**277**	277V
FN	Flush Aluminum, Natural	**A19**	Pattern #19 Acrylic Lens 0.156” Thick	**347**	347V [2]
FW	Flush Aluminum, White	**P1**	5/8”x5/8”x7/16” Deep Specular Plastic Louver	**480**	480V [2]
RB	Regressed Aluminum, Black	**P3**	3/4”x3/4”x1/2” Deep Specular Plastic Louver [3]		
RN	Regressed Aluminum, Natural	**WA08**	White Acrylic 0.08” Thick		
RW	Regressed Aluminum, White	**WA125**	White Acrylic 0.125” Thick		
AMB	Anti-Microbial Coating (Matte Skye White)	**FR**	Frosted Acrylic Lens, Pattern#12, 0.100” thick		
		FR12	Frosted Acrylic Lens, Pattern#12, 0.125” thick		
		P5OL	3/4” x 3/4” x 3/8” Deep Specular Plastic Louver with overlay		

LED DRIVER		OPTIONS	
GR	Generic, 0-10V 10% dim (Std.) [8]	**AB**	AB Switching
PH	Philips Xitanium, 0-10V 1% dim [8]	**EMG8**	1296 LUMEN EM Battery Backup (CEC Compliant EM) [7, 13]
ULT	Universal Everline 0-10V 1% dim [8]	**EMG15**	2430 LUMEN EM Battery Backup (CEC Compliant EM) [7, 13]
OS	Osram Optotronic, 0-10V 10% dim [8]	**EMG20**	3240 LUMEN EM Battery Backup (CEC Compliant EM) [7, 13]
OS1	Osram Optotronic, 0-10V 1% dim [8]	**ELCU-200**	Fail-to-on Emergency lighting, UL924 [11]
SD40	40%/100% Bi-Level Step dim (PH only)	**GTD**	Bodine Generator Transfer Device
SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) (PH only)	**GTD10DIM**	Bodine Generator Transfer Device (0-10VDC Dimmer Override)
TDM	Triac Dim. (120V only)	**GLR**	Fast Blow Fuse [1]
TD30/70	30% / 70% / 100% Tri-Level Step dim (PH only)	**GMF**	Slow Blow Fuse [1]
TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) (PH only)	**SSH**	Swivel Stem Hanger
ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	**DSH**	Double Stem Hanger
EC	eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)	**ARRA**	Assembled in USA for Buy American Act
LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology, 100% ~ 1% dim	**AMS**	Occupancy Sensor w/ Daylight Harvesting [5]
ELV	ELV compatible (reverse-phase or trailing-edge)	**DPMS**	Daylight Dimming Photo Sensor (0-10 VDC Control) [15]
PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.	**SO**	Dimming Wires connected to Sensor Only [6]
PHDL	Philips Xitanium DALI driver, Dim to 5%	**LSR-301-S**	Setup Remote Control for DPMS
ED560	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%	**LSR-301-P**	Occupant Remote Control for DPMS
DIMT	Tri-mode dimming (Triac, ELV, 0-10V)	**O7W**	Optional 7 Years Limited Warranty [4]
DMX	DMX512 control system (Only available with RGB+W option)	**O10W**	Optional 10 Years Limited Warranty [4]
DLM	Wattstopper’s DLM interface (Only available with RGB+W option)	**SLL**	Spring-Loaded Latches [14]
LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)	**HC403**	Microwave bi-level Occupancy Sensor, adjustable via DIP switch [16]
BLT	Bluetooth Mesh System (contact factory for more information)		

LIGHTING CONTROL SYSTEM	
LUTRON VIVE	<Lutron Vive System Enabled> Click Here! <EasySense>
SNS200C	EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) [12]
RS-IR	IR dongle for EasySense control

NOTES:
1. Must specify voltage, not available with 347V.
2. Supplied with step down transformer.
3. Not available in 1’x4’
4. This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included)
5. The standard will be ON/OFF sensor with dimming wires provided for dimmer switch. For sensor dimming control, please select additional “SO” option.
6. Dimming wires provided and connected to sensor only, not for dimmer switch. (available with AMS and DPMS option)
7. Contact factory for other emergency ballast options.
8. To find an approved dimmer switch, please see table 1.
9. Available with C9 only.
10. Lumen per watt is around 15% less than standard CRI (80+).
11. Shipped separately.
12. Please see Compatible Phone list in the separate attachment. If not listed, please order “RS-IR”, and follow IR-Dongle user guide and NFC and IR app user’s manual. Android users only.
13. Must specify voltage, not available with 347V or 480V.
14. RB, RN and RW door frames are not available with SLL option.
15. Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required or a manual on/off switch can be done.
16. See Table2 to find factory setting.

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SM LED

SM-14-2G-36LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	701 fc	3.7 ft	3.1 ft
3.3ft	186 fc	7.1 ft	6.0 ft
5.0ft	81.0 fc	10.8 ft	9.2 ft
6.7ft	45.1 fc	14.5 ft	12.3 ft
8.3ft	29.4 fc	18.0 ft	15.2 ft
10.0ft	20.2 fc	21.7 ft	18.3 ft

Vert. Spread: 94.6°
Horiz. Spread: 85.0°

SM-14-2G-44LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	897 fc	3.7 ft	3.1 ft
3.3ft	238 fc	7.1 ft	6.0 ft
5.0ft	104 fc	10.8 ft	9.2 ft
6.7ft	57.8 fc	14.5 ft	12.3 ft
8.3ft	37.6 fc	18.0 ft	15.2 ft
10.0ft	25.9 fc	21.7 ft	18.3 ft

Vert. Spread: 94.6°
Horiz. Spread: 85.0°

SM-14-2G-54LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	1,029 fc	3.7 ft	3.1 ft
3.3ft	273 fc	7.1 ft	6.0 ft
5.0ft	119 fc	10.8 ft	9.2 ft
6.7ft	66.2 fc	14.5 ft	12.3 ft
8.3ft	43.2 fc	18.0 ft	15.2 ft
10.0ft	29.7 fc	21.7 ft	18.3 ft

Vert. Spread: 94.6°
Horiz. Spread: 85.0°

SM-14-2G-72LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	1,401 fc	3.7 ft	3.1 ft
3.3ft	372 fc	7.1 ft	6.0 ft
5.0ft	162 fc	10.8 ft	9.2 ft
6.7ft	90.2 fc	14.5 ft	12.3 ft
8.3ft	58.8 fc	18.0 ft	15.2 ft
10.0ft	40.5 fc	21.7 ft	18.3 ft

Vert. Spread: 94.6°
Horiz. Spread: 85.0°

SM-14-2G-108LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	2,057 fc	3.7 ft	3.1 ft
3.3ft	546 fc	7.1 ft	6.0 ft
5.0ft	238 fc	10.8 ft	9.2 ft
6.7ft	132 fc	14.5 ft	12.3 ft
8.3ft	86.3 fc	18.0 ft	15.2 ft
10.0ft	59.5 fc	21.7 ft	18.3 ft

Vert. Spread: 94.6°
Horiz. Spread: 85.0°

SM-22-2G-27LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	550 fc	3.5 ft	3.7 ft
3.3ft	146 fc	6.8 ft	7.2 ft
5.0ft	63.6 fc	10.4 ft	10.9 ft
6.7ft	35.4 fc	13.9 ft	14.5 ft
8.3ft	23.1 fc	17.2 ft	18.0 ft
10.0ft	15.9 fc	20.7 ft	21.7 ft

Vert. Spread: 92.0°
Horiz. Spread: 94.7°

SM-22-2G-36LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	694 fc	3.5 ft	3.7 ft
3.3ft	184 fc	6.8 ft	7.2 ft
5.0ft	80.2 fc	10.4 ft	10.9 ft
6.7ft	44.7 fc	13.9 ft	14.5 ft
8.3ft	29.1 fc	17.2 ft	18.0 ft
10.0ft	20.1 fc	20.7 ft	21.7 ft

Vert. Spread: 92.0°
Horiz. Spread: 94.7°

SM-22-2G-44LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	828 fc	3.5 ft	3.7 ft
3.3ft	220 fc	6.8 ft	7.2 ft
5.0ft	95.7 fc	10.4 ft	10.9 ft
6.7ft	53.3 fc	13.9 ft	14.5 ft
8.3ft	34.7 fc	17.2 ft	18.0 ft
10.0ft	23.9 fc	20.7 ft	21.7 ft

Vert. Spread: 92.0°
Horiz. Spread: 94.7°

SM-22-2G-54LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	1,011 fc	3.5 ft	3.7 ft
3.3ft	268 fc	6.8 ft	7.2 ft
5.0ft	117 fc	10.4 ft	10.9 ft
6.7ft	65.1 fc	13.9 ft	14.5 ft
8.3ft	42.4 fc	17.2 ft	18.0 ft
10.0ft	29.2 fc	20.7 ft	21.7 ft

Vert. Spread: 92.0°
Horiz. Spread: 94.7°

SM-22-2G-72LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	1,388 fc	3.5 ft	3.7 ft
3.3ft	368 fc	6.8 ft	7.2 ft
5.0ft	160 fc	10.4 ft	10.9 ft
6.7ft	89.3 fc	13.9 ft	14.5 ft
8.3ft	58.2 fc	17.2 ft	18.0 ft
10.0ft	40.1 fc	20.7 ft	21.7 ft

Vert. Spread: 92.0°
Horiz. Spread: 94.7°

SM-22-2G-108LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	2,022 fc	3.5 ft	3.7 ft
3.3ft	536 fc	6.8 ft	7.2 ft
5.0ft	234 fc	10.4 ft	10.9 ft
6.7ft	130 fc	13.9 ft	14.5 ft
8.3ft	84.8 fc	17.2 ft	18.0 ft
10.0ft	58.4 fc	20.7 ft	21.7 ft

Vert. Spread: 92.0°
Horiz. Spread: 94.7°

SM-24-2G-36LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	729 fc	3.7 ft	3.7 ft
3.3ft	193 fc	7.2 ft	7.2 ft
5.0ft	84.3 fc	10.9 ft	10.9 ft
6.7ft	46.9 fc	14.6 ft	14.6 ft
8.3ft	30.6 fc	18.1 ft	18.1 ft
10.0ft	21.1 fc	21.9 ft	21.8 ft

Vert. Spread: 95.1°
Horiz. Spread: 94.8°

SM-24-2G-44LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	871 fc	3.7 ft	3.7 ft
3.3ft	231 fc	7.2 ft	7.2 ft
5.0ft	101 fc	10.9 ft	10.9 ft
6.7ft	56.1 fc	14.6 ft	14.6 ft
8.3ft	36.6 fc	18.1 ft	18.1 ft
10.0ft	25.2 fc	21.9 ft	21.8 ft

Vert. Spread: 95.1°
Horiz. Spread: 94.8°

SM-24-2G-54LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	1,072 fc	3.7 ft	3.7 ft
3.3ft	284 fc	7.2 ft	7.2 ft
5.0ft	124 fc	10.9 ft	10.9 ft
6.7ft	69.0 fc	14.6 ft	14.6 ft
8.3ft	45.0 fc	18.1 ft	18.1 ft
10.0ft	31.0 fc	21.9 ft	21.8 ft

Vert. Spread: 95.1°
Horiz. Spread: 94.8°

SM-24-2G-72LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	1,388 fc	3.7 ft	3.7 ft
3.3ft	368 fc	7.2 ft	7.2 ft
5.0ft	160 fc	10.9 ft	10.9 ft
6.7ft	89.4 fc	14.6 ft	14.6 ft
8.3ft	58.2 fc	18.1 ft	18.1 ft
10.0ft	40.1 fc	21.9 ft	21.8 ft

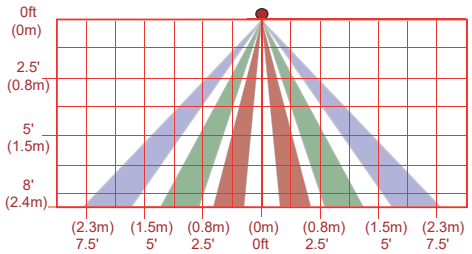
Vert. Spread: 95.1°
Horiz. Spread: 94.8°

SM-24-2G-108LED

Illuminance at a Distance

	Center Beam fc	Beam Width	
1.7ft	2,103 fc	3.7 ft	3.7 ft
3.3ft	558 fc	7.2 ft	7.2 ft
5.0ft	243 fc	10.9 ft	10.9 ft
6.7ft	135 fc	14.6 ft	14.6 ft
8.3ft	88.2 fc	18.1 ft	18.1 ft
10.0ft	60.8 fc	21.9 ft	21.8 ft

Vert. Spread: 95.1°
Horiz. Spread: 94.8°



AMS coverage pattern (side view)

* The coverage shown in the diagram is maximum. AMS is designed to detect small motion when mounted within 6' occupants.

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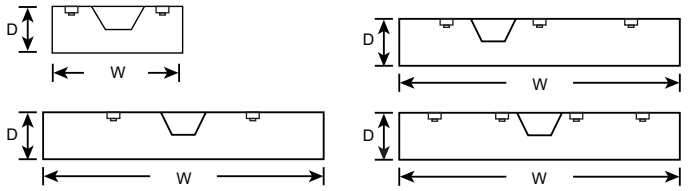
SM LED



Specifications: 1'x4'
Length: 48 (1218)
Width: 12 (304)
Depth: 3-7/8 (99)
Weight: 16.6 lbs (7.53 kg)

Specifications: 2'x2'
Length: 24 (608)
Width: 24 (608)
Depth: 3-7/8 (99)
Weight: 16.16 lbs (7.33 kg)

Specifications: 2'x4'
Length: 48 (1218)
Width: 24 (608)
Depth: 3-7/8 (99)
Weight: 26.3 lbs (11.93 kg)

All dimensions are in inches (millimeters).

COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand	Compatible Dimmer Switch	
(Blank)	-	<Leviton>	IllumaTech IP7 series
		<Lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
		<Philips>	Sunrise : SR1200ZTUNV
ES566	eldoLED SOLOdrive	<Busch-Jaeger>	2112U-101
		<Jung>	240-10
		<Leviton>	IllumaTech - IP710-DLX
		<Lightoller Controls>	ZP600FAM120
		<Merten>	5729
		<Pass & Seymour>	CD4FB-W
		<Wattstopper>	DCLV1
		<Sensor Switch>	nIO EZ
		<Synergy>	ISD BC
		<ABB>	SD/S 2.16.1
		<Lutron>	Nova T: NTFTV Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
		<Crestron>	GLX-DIMFLV8, GLXP-DIMFLV8, GLPAC-DIMFLV4-*, GLPAC-DIMFLVV8-*, GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM, DIN-AO8, DIN-4DIMFLV4, CLS-EXP-DIMFLV, CLCI-1DIMFLV2EX
LDE1	Lutron Hi-lume 1% EcoSystem	<Lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO [1, 2] Energi Savr Node (120V only): QSN-1EC0-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJ-_E(wireless) QSGR-_E Quantum Hub (120V only): QP2-_ _2C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
ELV/ TDM	ERP	<Lutron>	S-603PG, DVCL-153P, DV-600P, TGCL-153P, S-600P, DVELV-303P, SELV-300P, TG-600P, LG-600P, CT-103P, MAELV-600, FAELV-500
		<Leviton>	IPI06-1LZ, 6631-2, VPE06,6683-IW, 6161, 6633-P, IPE04
		<Cooper>	DLC03P, SLC03P, DAL06P
		<Lightolier>	ZP260QEW
LTEA2W	Lutron Hi-lume 2-wire (120V forward voltage only)	<Lutron>	Visit http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf for a list of compatible dimmer switches.

NOTES:
1. All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command.
   For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.
2. For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.

HC403 FACTORY SETTING (TABLE 2)

Detection Area	100%
Hold-time	5 sec
Daylight sensor	Disable
Stand-by period (tri-level control)	10 sec
Stand-by dimming level	10%

* See a separate attachment to find more setting options.